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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,523	02/11/2005	Peter Tiemann	2002p00241WOUS	1108
7590 Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830			EXAMINER SUNG, GERALD LUTHER	
			ART UNIT 3746	PAPER NUMBER
			MAIL DATE 04/01/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/524,523

Applicant(s)

TIEMANN ET AL.

Examiner

GERALD L. SUNG

Art Unit

4156

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8 and 11-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8, 11-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB-08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action

Claim Rejections - 35 USC § 103

1. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Babcock et al. GB 626,249 in view of Albrecht et al. USPN 6,415,724 B1 in further view of DuBell et al. USPN 3,978,662.
2. Regarding claim 8, Babcock et al. disclose improvements to a combustion chamber where the installations include an access means to access the interior of the combustion chamber. Babcock et al. disclose that "[i]n such installations the enclosing walls are often fluid cooled to provide protection from high furnace temperatures and further are preferably made gas tight throughout to avoid the troublesome and dangerous condition resulting from the ejection of high temperature gases and other products of combustion" (page 1, lines 27-35). DuBell et al. are relied upon to teach well known methods in the art where cooling air is passed in between an inner liner 50 and a wall 48. Furthermore, Babcock et al. teach the motivation to include a wall opening in a combustion chamber for the purposes of accessing the interior of the combustion chamber for maintenance purposes. With regards to the wall opening, Babcock et al. disclose "[w]hen a wall opening is provided through which access may be had to the interior for cleaning or other purposes it is essential that the opening be fitted with closure means suitably constructed and arranged so as to maintain the continuity of the gas-tight wall construction" (page 1, lines 35-42). Albrecht et al. disclose a water

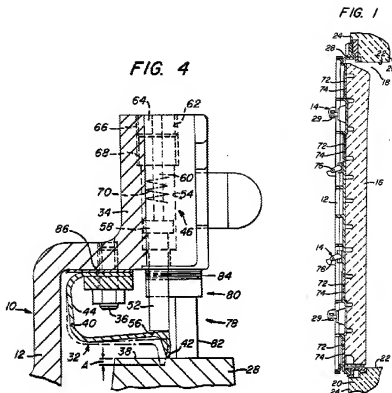
jacketed high-temperature stretcher accessible door for a boiler which includes inner cooling chambers. One of ordinary skill in the art at the time of the invention would have found it obvious to modify the combustion chamber in Babcock et al. with well known methods of combustion chamber wall cooling such as those taught by DuBell et al. in order to provide an efficient cooling means to cool the combustion chamber and a cooled door such as the door taught by Albrecht et al. in order to provide a means to access the interior of the combustion chamber for maintenance purposes. Furthermore, since Babcock et al. disclose a "closure means... wherein at least one port is provided for the admission of cooling gaseous fluid to the passage through the door frame member when the door is closed," (page 6, lines 20-25) one of ordinary skill in the art, in light of the well known combustion chamber cooling means taught by DuBell et al., would have found it obvious to combine the elements in Babcock et al. and Albrecht et al. in order to provide a more efficient cooling means where the continuity of the cooling chambers in the combustion chamber and the door would have yielded a more cost effective and efficient system by reducing the number of cooling systems required by the combustion chamber. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combustion chamber disclosed by Babcock et al. with a cooling chamber 46 taught by DuBell et al. and an access door taught by Albrecht et al.

3. Regarding claim 11, Babcock et al., as previously modified by Albrecht et al. and DuBell et al., disclose an access means that when connected would have directly

connected the cooling chambers in the door and the combustion chamber wall when the door is closed.

4. Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babcock et al. GB 626,249 in view of Albrecht et al USPN 6,415,724 B1 in further view of DuBell et al. USPN 3,978,662 and Stanke USPN 4,189,352.

5. Regarding claims 12-15, Babcock et al., as previously modified by Albrecht et al. and DuBell et al., disclose all elements except a fixing element as claimed in claims 12-15. Referring to figures 1 and 4 below, Stanke teaches a sealing member 32 which is designed to seal a coke oven door against a coke oven body 20. The seal member 32 is fixed to the periphery of the door by bolts 36 and along with other latching elements supports and seals the door and holds the chamber wall element against the door, where a first side supports the door and a second side is attached to the combustion chamber wall. The U-shaped seal member 32 projects into the door element in a manner where the door can be opened and closed without removing the fixing element. One of ordinary skill in the art at the time of the invention would have found it obvious to use sealing and latching means of high temperature chamber doors such as those taught by Stanke to provide a sealing and supporting means for a high temperature chamber door and increase the efficiency of the chamber door by properly sealing the opening.



Response to Arguments

6. Applicant's arguments regarding the objection to the term "manhole access cover" have been considered. Examiner acknowledges the applicant's right to be his own lexicographer and therefore respectfully withdraws the objection; however, the examiner maintains that a "combustion chamber panel wall" reads on the term "manhole cover" since no specification as to size limitations of the "manhole cover" have been made.

7. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendments necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **GERALD L. SUNG** whose telephone number is (571)270-3765. The examiner can normally be reached on M-F 9am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Isabella can be reached on (571) 272-4749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3725

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dmitry Suhol/
Primary Examiner, Art Unit 3725

Gerald Sung
Patent Examiner
GS
31 March 2008